

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the Application:

LISTING OF CLAIMS:

1. (Original) A data storage system, comprising:
    - a frame;
    - operating circuitry supported by the frame; and
    - a power subsystem configured to power the operating circuitry, the power subsystem including (i) a power supply configured to be supported by the frame, and (ii) a power cord assembly for connecting a power supply to a power source, the power cord assembly having:
      - a power cord which includes a first plug configured to connect to the power supply, a second plug configured to connect to the power source, and a cable interconnected between the first and second plugs; and
      - a device configured to fasten the first plug to the frame, the device including a body configured to attach to an installation location of the frame and substantially hold the first plug at the installation location of the frame when the power supply connects with and disconnects from the plug, the body including:
        - a first end wall,
        - a second end wall, and
        - lateral walls which connect the first end wall and the second end wall together; wherein,
- when the body substantially holds the first plug at the installation location of the frame and

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when the body is attached to the installation location of the frame, (i) the first end wall is configured to restrain the plug in a positive Z-direction relative to the frame, (ii) the second end wall is configured to restrain the first plug in a negative Z-direction relative to the frame, the negative Z-direction being opposite to the positive Z-direction along a Z-axis, and (iii) the lateral walls are configured to register the first plug relative to the frame in an X-Y plane which is perpendicular to the Z-axis.

2. (Original) A power cord assembly for connecting a power supply to a power source, the power cord assembly comprising:
  - a power cord having a first plug configured to connect to the power supply, a second plug configured to connect to the power source, and a cable interconnected between the first and second plugs; and
  - a device for fastening the first plug to a frame which is configured to support the power supply, the device including a body configured to attach to an installation location of the frame and substantially hold the first plug at the installation location of the frame when the power supply connects with and disconnects from the plug, the body including:
    - a first end wall,
    - a second end wall, and
    - lateral walls which connect the first end wall and the second end wall together; wherein, when the body substantially holds the first plug at the installation location of the frame and when the body is attached to the installation location of the frame, (i) the first end wall is configured to restrain the plug in a positive Z-direction relative to the frame, (ii) the

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second end wall is configured to restrain the first plug in a negative Z-direction relative to the frame, the negative Z-direction being opposite to the positive Z-direction along a Z-axis, and (iii) the lateral walls are configured to register the first plug relative to the frame in an X-Y plane which is perpendicular to the Z-axis.

3-4. (Canceled).

5. (Original) The power cord assembly of claim 2 wherein the body includes:  
a first member and a second member which are configured to allow the first plug to become encapsulated when in an open position relative to each other, and encapsulate the first plug when in a closed position relative to each other.

6. (Original) The power cord assembly of claim 5 wherein the first member defines a set of substantially 90 degree angles, and wherein the second member defines a set of angles which are substantially greater than 90 degrees to control rotational orientation of the first plug relative to the first and second members when the first plug is encapsulated by the first and second members.

7. (Original) The power cord assembly of claim 5 wherein the first and second members define a set of open spaces adjacent the first plug when the first plug is encapsulated by the first and second members.

8. (Currently Amended) The power cord assembly of claim 2 wherein the ~~first end wall, the second end wall and the lateral walls are~~ entire device is formed of a non-conductive polymer.

9. (Canceled).

10. (Currently Amended) A device for fastening a plug of a power cord to a frame which is configured to support a power supply, the device comprising:

a body configured to attach to an installation location of the frame and substantially hold the plug at the installation location of the frame when the power supply connects with and disconnects from the plug, the body including:

a first end wall,

a second end wall, and

lateral walls which connect the first end wall and the second end wall together; wherein, when the body substantially holds the plug at the installation location of the frame and when the body is attached to the installation location of the frame, (i) the first end wall is configured to restrain the plug in a positive Z-direction relative to the frame, (ii) the second end wall is configured to restrain the plug in a negative Z-direction relative to the frame, the negative Z-direction being opposite to the positive Z-direction along a Z-axis, and (iii) the lateral walls are configured to register the plug relative to the frame in an X-Y plane which is perpendicular to the Z-axis;

wherein the plug of the power cord and the body of the device are separate components, the body of the device being configured to capture the plug in an interference fit manner and present a physical connection interface of the plug to the power supply for direct physical mating between the physical connection interface of the plug and the power supply when the device fastens the plug to the frame.

11-12. (Canceled).

13. (Original) The device of claim 10 wherein the body includes:
  - a first member and a second member which are configured to allow the plug to become encapsulated when in an open position relative to each other, and encapsulate the plug when in a closed position relative to each other.
14. (Original) The device of claim 13 wherein the first member defines a set of substantially 90 degree angles, and wherein the second member defines a set of angles which are substantially greater than 90 degrees to control rotational orientation of the plug relative to the first and second members when the plug is encapsulated by the first and second members.
15. (Original) The device of claim 13 wherein the first and second members define a set of open spaces adjacent the plug when the plug is encapsulated by the first and second members.
16. (Currently Amended) The device of claim 10 wherein the ~~first end wall, the second end wall and the lateral walls are~~ entire device is formed of a non-conductive polymer material.
17. (Canceled).
18. (Original) A method for installing a power supply into a data storage system, the method comprising:
  - fastening a device to a plug of a power cord;
  - attaching the device to an installation location of a frame of the data storage system; and
  - inserting a power supply into the frame of the data storage system until the power supply mates with the plug of the power cord, the device having a first end wall, a second end wall, and lateral walls which connect

the first end wall and the second end wall together; wherein, when the device substantially holds the plug at the installation location of the frame and when the device is attached to the installation location of the frame, (i) the first end wall is configured to restrain the plug in a positive Z-direction relative to the frame, (ii) the second end wall is configured to restrain the first plug in a negative Z-direction relative to the frame, the negative Z-direction being opposite to the positive Z-direction along a Z-axis, and (iii) the lateral walls are configured to register the first plug relative to the frame in an X-Y plane which is perpendicular to the Z-axis.

19. (Previously Presented) The data storage system of claim 1 wherein the body includes:
  - a first member and a second member which form the walls and which are configured to allow the plug to become encapsulated when in an open position relative to each other, and encapsulate the plug when in a closed position relative to each other; and wherein the first member defines a set of substantially 90 degree angles, and wherein the second member defines a set of angles which are substantially greater than 90 degrees to control rotational orientation of the plug relative to the first and second members when the plug is encapsulated by the first and second members.
20. (Canceled).
21. (Previously Presented) The data storage system of claim 1 wherein the first plug of the power cord and the body of the device are separate components, the body of the device being configured to capture the first plug in an interference fit manner and present a physical connection interface of the first plug to the power supply for direct physical mating

between the physical connection interface of the first plug and the power supply when the device fastens the first plug to the frame.

22. (Canceled).

23. (Previously Presented) The power cord assembly of claim 2 wherein the first plug of the power cord and the body of the device are separate components, the body of the device being configured to capture the first plug in an interference fit manner and present a physical connection interface of the first plug to the power supply for direct physical mating between the physical connection interface of the first plug and the power supply when the device fastens the first plug to the frame.

24-25. (Canceled).

26. (Previously Presented) The method of claim 18 wherein the body includes:  
a first member and a second member which form the walls and which are configured to allow the plug to become encapsulated when in an open position relative to each other, and encapsulate the plug when in a closed position relative to each other; and wherein the first member defines a set of substantially 90 degree angles, and wherein the second member defines a set of angles which are substantially greater than 90 degrees to control rotational orientation of the plug relative to the first and second members when the plug is encapsulated by the first and second members.

27. (Canceled).

28. (Previously Presented) The method of claim 18 wherein the plug of the power cord and the body of the device are separate components, the body

of the device being configured to capture the plug in an interference fit manner and present a physical connection interface of the plug to the power supply for direct physical mating between the physical connection interface of the first plug and the power supply when the device fastens the plug to the frame.

29. (New) The data storage system of claim 1 wherein the device is configured to fasten the first plug to the frame such that the first plug cannot be removed from the frame without also removing the device from the frame.
30. (New) The data storage system of claim 1 wherein the body of the device is configured to encapsulate power plugs having differing shapes.
31. (New) The power cord assembly of claim 2 wherein the body of the device is configured to encapsulate power plugs having differing shapes.
32. (New) The power cord assembly of claim 5 wherein the first and second members are configured to encapsulate power plugs having differing shapes.
33. (New) The device of claim 10 wherein the body of the device is configured to encapsulate power plugs having differing shapes.
34. (New) The power cord assembly of claim 13 wherein the first and second members are configured to encapsulate power plugs having differing shapes.
35. (New) The method of claim 18 wherein attaching the device to the installation location of the frame of the data storage system comprises



fastening the plug of the power cord to the frame such that the plug cannot be removed from the frame without also removing the device from the frame.

36. (New) The method of claim 18 wherein the body of the device is configured to encapsulate power plugs having differing shapes.
37. (New) The method of claim 18:
  - wherein the frame includes a mounting element configured to support the power supply; and
  - wherein inserting the power supply into the frame of the data storage system further comprises sliding the power supply into the frame adjacent the mounting element such that the mounting element supports the power supply.